

3748

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/064,007	
	Filing Date	June 4, 2002	
	First Named Inventor	Gopichandra Surnilla	
	Art Unit	3748	
	Examiner Name		
Total Number of Pages in This Submission	10+	Attorney Docket Number	FGT 347 (202-0401)

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): -PTO 1449 -Copies of References
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	John D. Russell, Registration No. 47,048 Kolisch Hartwell, P.C.
Signature	
Date	February 20, 2004

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I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.	
Typed or printed name	Erin Filsinger
Signature	
Date	February 20, 2004

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S. Little
3/4/04

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

GOPICHANDRA SURNILLA

#9/ZDS
Date: February 20, 2004

Group Art Unit: 3748

Serial No. : 10/064,007

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Filed : June 4, 2002 TECHNOLOGY CENTER R3700

For : METHOD FOR CONTROLLING THE TEMPERATURE OF
AN EMISSION CONTROL DEVICE

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.56, 1.97, and 1.98

Applicant is submitting this Information Disclosure Statement pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98 to disclose to the U.S. Patent and Trademark Office the patents, publications, applications, and/or other references listed on the enclosed, completed PTO-1449 form(s). The filing of this Information Disclosure Statement should not be construed as a representation that a search has been made or as an admission that the listed references are prior art for this application. Applicant respectfully requests that the listed references be expressly considered during prosecution of the application, and that the references be made of record therein and appear among the "references cited" on any patents issuing therefrom.

CONTENT OF DISCLOSURE

This Information Disclosure Statement includes (1) five pages of PTO-1449 forms, and (2) a legible copy of each reference listed on the forms.

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FOREIGN-LANGUAGE REFERENCES

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A concise explanation of the relevance of each listed reference not in the English language follows:

German Patent No. 10107158 A1: The corresponding US application (US Patent No. 6,408,618) shows: A controller for a cylinder cut-off type internal combustion engine is provided for ensuring an activated state of catalysts in cylinders, which are stopped during a partial cylinder operation, at all times to maintain favorable emission characteristics upon switching from the partial cylinder operation to a full cylinder operation, and for maintaining a satisfactory fuel consumption rate by conducting the partial cylinder operation to the utmost. The cylinder cut-off type internal combustion engine can be switched between the partial cylinder operation and the full cylinder operation. Exhaust gas from cylinders in a left bank is purified by two catalyst units in exhaust pipes independent of each other. The controller estimates an estimated catalyst temperature of the catalyst for the right bank, and disables the partial cylinder operation when the estimated catalyst temperature is below a predetermined temperature.

Japanese Patent No. 62-247176: To obtain the max. combustion efficiency of an engine as a whole by allowing the spark plug in each cylinder to be ignition-timing-controlled independently, in the engine equipped with the cylinders for lean combustion and the cylinders for rich combustion.

The first cylinders 11-13 which are operated by the supply of the mixed gas in the vicinity of a theoretical air-fuel ratio and the second cylinder 14 into which the mixed gas in lean state is supplied in the low load operation and which is operated by the supply of the mixed gas in the vicinity of a theoretical air-fuel ratio in the operation other than the low load operation are provided. In such an engine, the spark plugs 51-54 installed onto the respective cylinders 11-14 are connected with a distributor 55, and supplied with the high voltage supplied from an ignition coil 56 controlled by the ignition instruction signal supplied from an ECU 60. Said ECU 60 is installed to allow the first cylinders 11-13 and the second cylinder 14 to perform the ignition timing control independently on the basis of the advance map memorized for the cylinder in each group according to the output of a cylinder discriminating sensor 57.

Japanese Patent No. 7-35016: To provide a uniform burning state for each cylinder group so as to enhance stability of an engine by changing a burning state of each cylinder group in order to improve the burning state of a cylinder group in a poor burning state on the basis of the burning state of each cylinder group.

A control unit 6 reads in a water temperature T_F on a front bank F side and a water temperature T_R on a rear bank R side on the basis of signals output from water temperature sensors 4, 5. When a rotation varying ratio $\Delta n < \text{allowable limit value } n_1$, an ignition timing ADVR on the rear bank R side is corrected to a delay angle side, thereby increasing an exhaust temperature. When $\Delta n \geq n_1$, the ignition timing ADVR is corrected to an advance angle side, thus securing stability of an engine. Thereafter, a value obtained by multiplying a difference between the water temperatures

TS< TF by a predetermined coefficient is added into the ignition timing ADVF, thereby calculating an ignition timing ADVF on the front bank F side. Namely, the ignition timing ADVF is set toward the advance angle side by a value equivalent to the difference between the water temperatures with respect to the ignition timing ADVF.

TIMING OF DISCLOSURE / FEE INFORMATION

This Information Disclosure Statement is being filed, to the best of the undersigned's knowledge, either (1) before the mailing of a first Office action on the merits, or (2) before the mailing of a first Office action after the filing of a request for continued examination under 37 C.F.R. § 1.114. Therefore, in accordance with 37 C.F.R. § 1.97(b), no fee or statement under 37 C.F.R. § 1.97(e) is required.

Please contact the undersigned with any questions or comments regarding this Information Disclosure Statement.

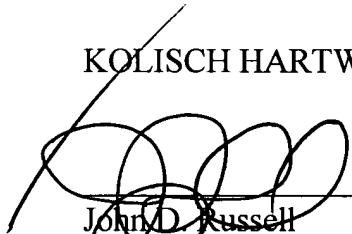
CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, on February 20, 2004.


Erin Filsinger

Respectfully submitted,

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